

WHAT IS CLAIMED IS:

1. A system for creating a line, comprising:  
a radiant energy source; and  
an altering device, and wherein radiant energy projected from said laser radiant energy source into said altering device emerges from said altering device to form a line in a predetermined plane.

2. The system of claim 1, wherein said altering device is a hollow tube.

3. The system of claim 1, wherein said altering device is a hollow tube within a hollow tube.

4. The system of claim 1, wherein said altering device is a capillary array.

5. The system of claim 1, wherein said altering device is a fiber optic rod.

6. The system of claim 5, including a mirror with a reflecting surface, and a glass member positioned between said mirror and said fiber optic rod, said mirror having a channel therein through which said radiant energy from said radiant energy source is projected towards said fiber optic rod.

7. The system of claim 5, including a mirror with a reflecting surface, said mirror having a channel therein through which said radiant energy from said radiant energy source is projected towards said fiber optic rod, and wherein a gap is included between said reflecting surface of said mirror and said fiber optic rod.

8. The system of claim 1, wherein said line is a level line.

9. The system of claim 8, wherein said line is a circle.

10. A line producing apparatus, comprising:  
a laser source adapted to produce radiant energy; and  
a laser output altering device, and wherein radiant energy projected from said laser source into said laser output altering device emerges from said laser output altering device in a predetermined plane

11. The line producing apparatus of claim 10, wherein said laser output altering device is a hollow tube.

12. The line producing apparatus of claim 10, wherein said laser output altering device is a hollow tube within a hollow tube.

13. The line producing apparatus of claim 10, wherein said laser output altering device is a capillary array.

14. The line producing apparatus of claim 10, wherein said laser output altering device is a fiber optic rod.

15. The line producing apparatus of claim 14, including a mirror with a reflecting surface, and a glass member positioned between said mirror and said fiber optic rod, said mirror having a channel therein through which said radiant energy from said laser source is projected towards said fiber optic rod.

16. The line producing apparatus of claim 10, wherein said line produced by said line producing apparatus is a level line.

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17. A method for creating a line, comprising the steps of:  
providing a laser source; and  
providing a device for receiving radiant energy from said laser source, said device being adapted such that radiant energy projected from said laser source into said device emerges from said device in an outward pattern to form a line in a predetermined plane.

18. The method of claim 17, including the step of providing said device in the form of a hollow tube.

19. The method of claim 17, including the step of providing said device in the form of a hollow tube within a hollow tube.

20. The method of claim 17, including the step of providing said device in the form of a capillary array.

21. The method of claim 17, including the step of providing said device in the form of a fiber optic rod.

22. The method of claim 17, including the steps of providing a mirror with a reflecting surface thereon, and providing a glass member positioned between said mirror and said fiber optic rod with said mirror having a channel therein through which said radiant energy from said laser source is projected towards said fiber optic rod.

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23. The method of claim 17, including the steps of providing a mirror with a reflecting surface, said mirror having a channel therein through which said radiant energy from said laser source is projected towards said fiber optic rod, and providing a gap between said reflecting surface of said mirror and said fiber optic rod.

24. The method of claim 17, wherein said line is a level line and in the form of a circle.

25. The line producing apparatus of claim 10, including a pair of orthogonally connected substrates, said substrates including mirrors attached to a surface thereof, said light altering being positioned in contact with said mirrors, and wherein one of said pair of substrates includes a channel therein through which said laser source projects radiant energy into said laser output altering device.

26. The line producing apparatus of claim 10, including a plumb bob with said laser output altering device positioned between portions of said plumb bob.

27. The line producing apparatus of claim 26, including a mirror, and wherein radiant energy from said laser source is projected into said mirror and then into said laser output altering device.

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28. An apparatus for producing a line, comprising:

a laser source adapted to produce radiant energy;

a device for altering radiant energy produced by said laser source, and wherein radiant energy projected from said laser source into said device emerges from said device in a disc shaped pattern in a predetermined plane; and

a concave cylindrically shaped reflector member with a mirrored reflecting surface positioned between said laser source and said device, said concave shaped reflector member having a channel therein through which radiant energy from said laser source is projected towards said device.

29. A line creating apparatus, comprising:

a device adapted to create radiant energy;

an altering device, and wherein radiant energy projected from said device into said altering device emerges from said altering device in a disc shaped pattern; and

a convex cylindrically shaped reflector member with a mirrored reflecting surface positioned between said device and said altering device, said convex shaped reflector member having a channel therein through which radiant energy from said device is projected towards said altering device.

30. The line producing apparatus of claim 10, wherein said radiant energy emerging from said laser output altering device is in a disc shaped pattern.

31. The method of claim 14, wherein said radiant energy emerges from said laser output altering device in a disc shaped pattern.

32. An apparatus for producing a disc shaped line, comprising:

a laser source for producing radiant energy;

a radiant energy altering device, and wherein radiant energy projected from said laser source into said radiant energy altering device emerges from said radiant energy altering device in a disc shaped pattern;

a curved reflector member with a mirrored reflecting surface positioned between said laser source and said radiant energy altering device, said curved reflector member having a channel therein through which radiant energy from said laser source is projected towards said radiant energy altering device, and

a cone shaped member having a polished surface, and wherein said radiant energy from said laser source strikes said radiant energy altering device and produces a disc of radiant energy that in turn strikes a surface of said curved reflector and is reflected onto said polished surface of said cone shaped member, and wherein said radiant energy is reflected from said cone shaped member in a ring configuration to thereby produce a disc shaped optical line.

33. The apparatus of claim 32, wherein said curved reflector member is a concave cylindrically shaped reflector member.

34. The apparatus of claim 33, wherein said curved reflector member is conical in shape.

35. The apparatus of claim 33, wherein said curved reflector member is parabolic in shape.

36. An apparatus adapted to create an optical line, comprising:  
a laser source; and  
a device for receiving radiant energy from said laser source, said device being adapted such that radiant energy projected from said laser source into said device emerges from said device in an outward pattern to form an optical line in a predetermined plane.

37. The apparatus of claim 36, wherein said device is in the form of a hollow tube.

38. The apparatus of claim 36, wherein said device is in the form of a hollow tube within a hollow tube.

39. The apparatus of claim 36, wherein said device is in the form of a capillary array.

40. The apparatus of claim 36, wherein said device is in the form of a fiber optic rod.